

ROOF PROTECTION ULTRA CAM

Highly elastic, quick-drying and UV-resistant fluid membrane ready to use for outdoor waterproofing.

In compliance with CE EN 1504-2 and CE EN 1504-9 standards.

CAM certified according to UNI ISO 14021.



Product identification

ROOF PROTECTION ULTRA is a quick-drying, ready-to-use and totally solvent-free colored polymeric fluid membrane, based on acrylic polymers in water dispersion, for outdoor waterproofing applications.

The product allows easy application on horizontal, inclined or vertical surfaces, spreadable with a long-haired roller, brush, spatula and even by spray.

After drying, it acquires the properties of an extremely elastic membrane thanks to its special composition, which also makes it non-sticky, resistant to atmospheric agents and UV rays and walkable.

Its high elasticity allows it to withstand the normal expansion and shrinkage movements of the substrate due to changes in temperature and settling.

The special formulation eliminates slippage for the vertical and horizontal application of reinforcing fabrics, such as EDMEC TNT100 or corner reinforcements such as EDMOBAND BT.

The product is formulated with ecological materials for the purpose of reducing CO2 emissions, as well as being quartz, APEO and VOC free.

CAM certificate according to UNI ISO 14021 issued by the international body SGS Italia.

Product pros

- ❖ Ready to use.
- ❖ Easy to apply.
- ❖ Quick drying.
- ❖ Superior elasticity to other acrylic waterproofing membranes.
- ❖ Can be used on numerous surfaces.
- ❖ *crack-bridging* capabilities.
- ❖ Total hydrophobicity.
- ❖ Durability extendable up to 15 years.

Main applications

<u>Supports</u>	<u>Jobs</u>
Cement plasters	Waterproofing and protection of flat roofs, bituminous coverings and external surfaces.
Cement screeds	Civil
Mineral screeds	Industrial
Concrete	Commercial
Cured concrete	<u>Do not use</u>
Ceramic tiles	-On substrates that are not perfectly anchored, subject to rising humidity, wet, humid.
Stone material	-In unfavorable environmental conditions or with imminent rain.
Tiles	-On recently constructed bituminous coverings (< 6 months).
Old bituminous sheaths	-On surfaces where heavy objects are expected to drag.
Aluminum, steel, iron, copper, wooden floors	

Fiberglass (after sanding)	
Fiber cement sheets	
Old acrylic liquid sheaths	
PVC coverings (after sanding)	

Preparation of the support

- ❖ In summary, the installation support must be free from humidity, salty efflorescence, dust, grease, rust, old paint, mould, loose parts and any situation that would compromise good adhesion.
- ❖ Restore degraded, missing parts or gravel nests and fill any differences in flatness with total maturation.
- ❖ On old stable and perfectly anchored floors, completely remove any detaching layers such as waxes, water-repellent treatments, etc., by using specific products or sanding as well as removing any condensation or residues of washing water.
- ❖ In the case of old ceramic floors with empty joints, restore them using CP250 VELOCE before applying ROOF PROTECTION ULTRA.
- ❖ In the case of bituminous membranes, wash the surface carefully with water and let it dry completely before priming with HYDRO PROTECTION PRIMER.
- ❖ In the case of non-absorbent supports, such as metal supports, or highly absorbent ones, prime the support with HYDRO PROTECTION PRIMER.

Ways of use

- ❖ Apply ROOF PROTECTION ULTRA evenly following the instructions in the table below; wait about 4 hours between one coat and the other so that it is sufficiently dry, checking that the product has a darker and more opaque colour, before applying the next coat so as to cross the first.
- ❖ The final thickness of the two coats of ROOF PROTECTION ULTRA must never be less than 1 mm in order to create a consistent, elastic and continuous film, taking care that there are no interruptions due to imperfections in the substrate.
- ❖ In situations of use, where there are corners, especially between walls and attics, it is always advisable to embed the EDMEC TNT100 fabric between one coat and another, which significantly improves the natural thermal and settling expansions over time also due from the structural arrows.
- ❖ In corner situations where normal settlement expansions are expected, always use the special EDMOBAND PT 150 or EDMOBAND TPE 120 reinforcing tapes, completely embedded between one coat and the other of product.
- ❖ Protect the ROOF PROTECTION ULTRA membrane from rain until completely dry.
- ❖ ROOF PROTECTION ULTRA in light colours, especially in white, has very high thermal reflectance and emissivity values, which allow the product to reduce the "heat island" effect and also the temperature of the roof itself, concretely improving comfort internal living.
- ❖ The effectiveness of ROOF PROTECTION ULTRA over time can be improved if used following the instructions in the following table.

<u>Durability</u>	<u>Number and type of layer</u>	<u>Thickness per coat</u>	<u>Consumption per hand</u>
<u>5 YEARS</u> <u>With 2 hands</u>	Primer: ROOF PROTECTION ULTRA diluted at 10% or HYDRO PROTECTIN PRIMER	-	Approximately 0.2 kg/m ²
	2 coats of ROOF PROTECTION ULTRA	0.5mm	≥ 1 kg/m ²
<u>10 YEARS</u> <u>3 coats + reinforcement fabric</u>	Primer: ROOF PROTECTION ULTRA diluted at 10% or HYDRO PROTECTIN PRIMER	-	Approximately 0.2 kg/m ²
	1 coat of ROOF PROTECTION ULTRA with TNT100	1 mm	≥ 2 kg/m ²
	2 coats of ROOF PROTECTION ULTRA	0.5mm	≥ 1 kg/m ²
<u>15 YEARS</u> <u>4 coats + reinforcement fabric</u>	Primer: ROOF PROTECTION ULTRA diluted at 10% or HYDRO PROTECTIN PRIMER	-	Approximately 0.2 kg/m ²
	1 coat of ROOF PROTECTION ULTRA	0.5mm	≥ 1 kg/m ²
	1 coat of ROOF PROTECTION ULTRA with TNT100	1 mm	≥ 2 kg/m ²
	2 coats of ROOF PROTECTION ULTRA	0.5mm	≥ 1 kg/m ²

Warnings and precautions for use

- ❖ Apply ROOF PROTECTION ULTRA at temperatures between +5°C and +35°C
- ❖ Always comply with current regulations and national provisions.
- ❖ Do not apply ROOF PROTECTION ULTRA on cementitious substrates with residual humidity greater than 3% or subject to continuous rising humidity.
- ❖ Do not apply ROOF PROTECTION ULTRA on friable cementitious supports or on pre-existing floors that do not adhere well to the support or with surface treatments that hinder adhesion.
- ❖ Do not use ROOF PROTECTION ULTRA to mask cracks.
- ❖ Protect from rain until the first coat is completely dry and 4 hours after applying the second coat. (this performance varies based on temperature and humidity).

Cleaning

Cleaning of tools and any product residues from surfaces must be carried out with water on fresh product. Once hardened, the product can be removed mechanically or with the use of solvents.

<u>Description</u>	<u>Data measured at +23°C & 50% RH</u>	
<u>Density mass</u>	1.40 Kg/dm ³ ±10%	
<u>Brookfield viscosity</u>	15000 mP a·s	
<u>Minimum filming temperature</u>	+5°C	
<u>Application temperature</u>	From +5°C to +35°C	
<u>Waiting time between first and second coat</u>	Approximately 4 hours (when dry to the touch)	
<u>Complete drying</u>	36 hours	
<u>Reaction to fire</u>	Class E	EN 13501-1
<u>CO₂ permeability</u>	S _D > 50 m	EN 1062-6
<u>Water vapor permeability</u>	Class I	EN ISO 7783-1
<u>Capillary absorption and water permeability</u>	w < 0.1 kg*m ⁻² *h ^{-0.5}	EN 1062-3
<u>Direct traction grip</u>	≥ 0.8 MPa	EN 1542
<u>Thermal compatibility of freeze-thaw cycles without immersion in de-icing salts</u>	≥ 0.8 MPa	EN 13687-1
<u>Exposure to artificial atmospheric agents</u>	No visible defects, slight color variation	EN 1062-11
<u>Resistance to cracking (Crack-Bridging)</u>	Class A5 (23°C), A5 (0°C), B3.1 (0°C), B3.2 (0°C)	EN 1062-7
<u>Color</u>	RAL and OUTDOOR EDMEC colors	
<u>Wet yield</u>	1.4 Kg/m ² per mm of thickness	
<u>Yield per 1 mm of dry product</u>	2 Kg/m ² per mm of thickness	
<p><i>The information contained in this sheet is the result of knowledge and tests available at the date of publication. DM SRLS UNIPERSONALE does not assume any responsibility for damage to persons or things resulting from improper use of such information and reserves the right to modify the data without notice.</i></p>		
<p><i>For anything not reported, contact EDMEC technical service</i></p>		

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